

ESTIMATION AND QUANTITY SURVEYING

Course Code: 13CE1123

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Course Outcomes:

At the end of the course the student will be able to:

- CO 1** Apply basic concepts of estimation in evaluating construction cost
- CO 2** Apply standard specifications to carry out rate analysis.
- CO 3** Prepare bar bending schedule for different RC elements
- CO 4** Prepare valuation of building using principles of valuation
- CO 5** Estimate the quantities for roadwork items.

UNIT-I (20 Lectures)

INTRODUCTION:

General items of work in Building – Standard Units –Principles of working out quantities for detailed and abstract estimates –Methods of Estimates of Buildings – Detailed estimates of buildings.

UNIT-II (12 Lectures)

Standard specifications for different items of building construction. Rate Analysis – Working out data for various items of work, over head and contingent charges.

UNIT-III (10 Lectures)

Reinforcement bar bending schedules.

UNIT-IV (12 Lectures)

Valuation of buildings – Purpose and Principles of valuation – Technical terms – Methods of valuation.

UNIT-V**(10 Lectures)**

Estimation of quantities for road work items.

TEXT BOOKS:

1. B.N. Dutta, “*Estimating and Costing*”, 10th Edition, UBS Publishers, 2000.
2. A.K. Upadhyay, “*Civil Estimating and Costing*”, 8th Edition, S.K. Kataria and Sons Publishers, 2010.

REFERENCES:

1. Standard Schedule of Rates and Standard Data Book by Public Works Department, 2014.
2. IS. 1200 (Parts I to XXV – 1974, “*Method of Measurement of Building and Civil Engineering works*”, B.I.S.)
3. National Building Code - 2010.
4. M. Chakraborti; “*Estimation, Costing and Specifications*”, 7th Edition, Laxmi Publications, 2008.
5. G.S. Birdie, “*Estimating and Costing*”, 6th Edition, Dhanapati Rai Publishing Company, 2005.

